

**VILLAGE CODE AMENDMENT
VILLAGE OF CAMPTON HILLS
ADDITION OF CHAPTER 3 TO TITLE 11
OF THE VILLAGE CODE
RESPONSIBLE OUTDOOR LIGHTING ORDINANCE FOR NEW CONSTRUCTION**

WHEREAS, electors of the Village of Campton Hills in 2009 passed an advisory referendum supporting the initiative of the Village of Campton Hills to consider adopting a dark sky light ordinance; and

WHEREAS, the Corporate Authorities recognize the need to preserve rural character, aesthetic value, and the unique quality of life of Campton Hills residents by preserving and enhancing the ability to view the night sky; and

WHEREAS, the Corporate Authorities recognize the need to define limits and protect residents and business owners from the trespass of excessive and misdirected light from adjacent properties; and

WHEREAS, establishing a standard for outdoor illumination for all new construction will provide residents, business owners, and developers with a clear set of guidelines to be followed; and

WHEREAS, the Corporate Authorities wish to promote sound environmental policies which will benefit residents and visitors and serve as a positive example to surrounding communities; and

WHEREAS, the Corporate Authorities recognize the night sky as a natural resource; and

WHEREAS, the Corporate Authorities find that the provisions of this Village Code Amendment are consistent with the objectives of the Village Comprehensive Plan; and

WHEREAS, the amendment will promote the health, safety and welfare of the residents of the Village of Campton Hills and the general public; and

WHEREAS, the safety and welfare of pedestrians, cyclists, and motorists are enhanced by the reduction of glare and the establishment of consistent and well-defined levels of lighting; and

WHEREAS, proper direction and use of light will minimize energy wasted on unnecessary and indiscriminate illumination; and

WHEREAS, because of the aforementioned recitals contained within the preamble of this Ordinance, the Corporate Authorities, with approval of this Ordinance, are striving to meet the following principals: dark night time sky in open space and forest preserve areas; low ambient lighting in farmland preservation, agricultural, and single-family districts; low to medium ambient lighting in multi-family districts and school properties; medium ambient lighting in commercial properties with little or no evening business; and medium to high ambient lighting in all other commercial and industrial districts, depending on the use of the premise.

NOW THEREFORE, BE IT ORDAINED BY THE PRESIDENT AND BOARD OF TRUSTEES OF THE VILLAGE OF CAMPTON HILLS, KANE COUNTY, ILLINOIS AS FOLLOWS:

SECTION 1: Title 11 of the Village Code is hereby amended to add thereto a new Chapter 3 as follows:

**CHAPTER 3.
RESPONSIBLE OUTDOOR LIGHTING FOR NEW CONSTRUCTION**

SECTION 11-3-1: DEFINITIONS

AMBIENT LIGHTING: The general overall level of lighting in an area.

ARCHITECTURAL LIGHTING: Outdoor lighting directed at buildings, facades, structures, monuments, and other architectural features.

AUTOMOBILE SERVICE STATION: As defined in the Village of Campton Hill Zoning Ordinance.

CANOPY: A roofed structure with at least one side open for pedestrian and/or vehicle access that typically provides protection from the sun or weather and is associated with providing goods or services.

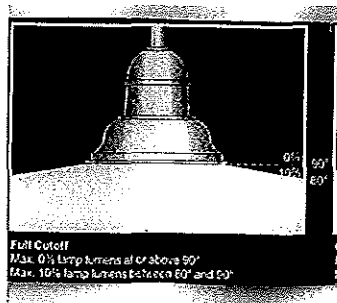
COMMERCIAL: Any lot, however zoned, in any zoning district that does not have as its primary use a single-family residential dwelling, a two-family residential dwelling, or land used for "Agriculture," as defined in the Village of Campton Hills Zoning Ordinance.

CORRELATED COLOR TEMPERATURE (CCT): Measured in degrees Kelvin (K), the absolute temperature of a blackbody whose chromaticity most nearly resembles that of the light source. For the purpose of this Chapter, CCT is used as a simplified way to characterize the spectral properties of a light source and estimate the overall appearance of the light to the human eye

FLOOD LIGHT: A light designed for lighting a scene or object to a luminance greater than its surroundings.

FOOTCANDLE: A unit of measure of illuminance, equal to one lumen of light spread over an area of one square foot.

FULL CUTOFF LUMINAIRE: A luminaire having zero intensity at or above horizontal (90°) and limited to a value not exceeding 10% of lamp lumens at or above 80°. Such luminaire is determined by a photometric test and certified by the manufacturer. See diagram below.



GLARE: Lighting entering the eye directly from luminaires or indirectly from reflective surfaces that causes visual discomfort or reduced visibility.

IES: Illuminating Engineering Society of North America.

ILLUMINANCE: The total luminous flux incident on a surface, per unit area.

ILLUMINANCE GRID PLOT: A photometric report indicating the average horizontal illumination delivered to each of the squares of a gridded area illuminated by one or more luminaires.

INITIAL LUMEN: The measurement of a lamp's lumen output at the time the lamp is burned for the first time. As a light ages, the amount of light produced is reduced.

INSTALLED HEIGHT: The height above grade of the lowest light-emitting point of an installed luminaire.

ISO-FOOTCANDLE PLOTS: A plot that graphically represents a particular luminaire's lighting pattern, in illuminance, as the light strikes a horizontal surface. It includes footcandle calculations shown with the luminaire at various mounting heights. Contour lines are drawn through illuminance values.

KELVIN: A unit increment of temperature used as a color temperature scale of a light bulb (see Correlated Color Temperature).

LAMP: The source of light being emitted from a luminaire, such as a bulb, LED, and/or a refractive pane.

LED (Light Emitting Diode): An electronic semiconductor device that emits light when an electrical current is passed through it.

LIGHT: Electromagnetic radiation within a range of wavelengths sufficient for visual perception by the normal unaided human eye.

LIGHT LEVEL: See illuminance.

LIGHT OUTPUT: Luminous Flux (see definition for Luminous Flux). The amount of light which is emitted by a lamp or luminaire.

LIGHT POLE: Pole on which a luminaire is mounted.

LIGHT TRESPASS: Light that falls on property other than that of the owner of the light source.

LIGHTING INSTALLATION: An arrangement of one or more luminaires including any mounting hardware, brackets, and supporting structures.

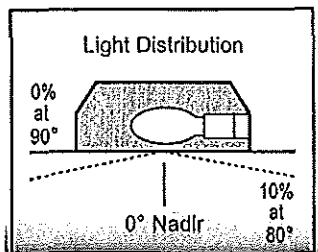
LIGHTING PLAN: Is an overall plan that describes the outdoor lighting.

LUMEN: A unit of measure of luminous flux.

LUMINAIRE, LIGHT LUMINAIRE: The complete lighting assembly (including the lamp(s), housing, ballasts, photocells, globes, reflectors or refractors, lenses, sensors and shield(s) and excluding the support assembly or pole, mounting bracket and base) consisting of one or more lamps, together with the attachment parts designed to distribute light, position and connect the lamp to the power supply.

LUMINOUS FLUX: The power emitted from a source of electromagnetic radiation, such as a light bulb, in the form of visible light. Luminous flux is measured in lumens and is typically specified by the manufacturer for a given lamp or luminaire.

NADIR: The direction pointing directly downward from the light source of the luminaire that originates from a horizontal plane at the lowest point on the luminaire. See diagram below.



NEON LIGHT: Colored florescent or gas discharge tubular which can be bent into various forms for use decoratively or as signs.

NEW CONSTRUCTION: Subject to the exemption described below, New Construction means:

- a. Site preparation for, and construction of, entirely new structures (including new poles) and subsequent replacement of such new structures or any part thereof.
- b. Enlargement of any existing structure by the more restrictive of fifty percent (50%) of the area of the footprint of the building or fifty percent (50%) of the gross square footage of such existing structure (regardless of the number of other structures on the same site).
- c. Adding new lighting fixture(s), pole(s) or other amenity(ies) to existing structure(s) or pole(s) to which such fixture(s) were or are to be attached.
- d. New construction does not apply to the replacement of lighting fixtures, poles, or other amenities that existed prior to July 1, 2014.

OPEN SPACE AND OPEN SPACE LOT: A parcel of land in a predominately undeveloped condition that is protected from development.

ORGANIZED SPORTING EVENT: A prearranged sports or recreational event involving at least one group or team with a roster and schedule.

OUTDOOR LIGHTING: Light generated from an indoor or outdoor source that provides illumination to any exterior surface, building, sign, structure, device, or other outdoor feature (including land) which is visible to an observer located outdoors. For the purposes of this Chapter, the light source inside an internally illuminated sign is not considered outdoor lighting.

PLAYING FIELD: An open outdoor field or court used for but not limited to playing sports such as baseball, soccer, football, tennis, volleyball, and basketball.

PHOTOMETRIC PLAN: A technical plan that will indicate light distribution and the performance of lighting fixtures. It will explain the distribution of the proposed lighting and its effects on the area surrounding the site.

RESIDENTIAL: Any zoning lot in a residential or agricultural zoning district that has as its primary use a residential dwelling, as defined in the Village of Campton Hills Zoning Ordinance.

STREET LIGHTING: One or more luminaires or light installations designed to illuminate a public roadway or intersection.

UPLIGHTING: Lighting applications which direct light above a horizontal plane.

VARIANCE: As defined in the Village of Campton Hills Zoning Ordinance.

ZONING LOT: As defined in the Village of Campton Hills Zoning Ordinance.

SECTION 11-3-2: APPLICABILITY

This Chapter shall be applicable to the following lighting applications for new construction only and the subsequent maintenance of all new construction:

1. Residential – Street, pedestrian, sign, flood, and parking lot luminaires only.
2. Commercial – Any outdoor lighting luminaire.

SECTION 11-3-3: PROHIBITED LIGHTING FOR NEW CONSTRUCTION

The following lighting shall not be permitted for new construction in any zoning district as of the effective date of this Chapter:

1. Strobe lights and laser lights, including laser light shows and aerial laser lights;
2. Neon style colored light tubes;
3. Flashing lights unless temporarily triggered by a security system and extinguished within 30 minutes or at a time of security response;
4. Lighting which is used to outline a building, including neon, fiber optic, lighting emitted diode (LED), or fluorescent tube lighting which is used for this purpose (unless considered holiday lighting);
5. Any lighting luminaire that is construed as or confused with a traffic signal or traffic control device;
6. As determined by the Police Chief, lighting that contributes to or causes disabling or distracting glare onto a public roadway;
7. The use of uplighting, except when lighting the American flag or other government flag or government endorsed flag;

SECTION 11-3-4: ILLUMINATION STANDARDS

1. GROSS EMISSION OF LIGHT

The total light output from all luminaires used for outdoor lighting on any zoning lot except for street lighting, outdoor display lots, automobile service station and outdoor lighting of playing fields on public property, shall not exceed 50,000 initial lumens per acre of illuminated area. Automobile service stations shall not exceed 80,000 initial lumens per acre of illuminated area. Lighting installations located under skirted canopies shall not contribute more than 50% of this limit.

2. LIGHT INTENSITY AND UNIFORMITY

The maximum illuminated surface light level for automobile service stations and drive-in/drive-through canopies is 10 footcandles measured horizontally at ground level.

3. LIGHT DIRECTION & CONTROL

Lighting applications shall meet the following requirements:

Lighting Application	Maximum Inclination Above Nadir	Maximum Light Output
Architectural Lighting	90°	1100 initial lumens
Sidewalk Lighting	45°	800 initial lumens
Flood Lighting	90°	2200 initial lumens

4. CORRELATED COLOR TEMPERATURE (CCT)

All lighting sources, except for public playing fields, must have a Correlated Color Temperature (CCT) at or below 3200 degrees Kelvin (K).

5. PERMITTED HOURS OF OUTDOOR LIGHTING

a) Commercial Lighting

No more than 50% of exterior lighting, shall be permitted to be illuminated, except for one hour before start of business, during regular business hours as determine by said business, and one hour following close of business unless exempt for safety or security concerns, as determined by the Police Chief, all outdoor lighting shall be turned off during daylight hours.

b) Property Used for Governmental & Public Purposes

Any zoning lot in any zoning district used for governmental or public purposes, except for street lighting, shall comply with the permitted hours and security lighting limitations for commercial lighting zones. Outdoor lighting of the playing field of an organized sporting event on public property may remain illuminated until 30 minutes after the conclusion of an event.

6. LIGHT TRESPASS

Violations of this Chapter shall be punishable as provided by Section 7-2-2 of this Code.

SECTION 11-3-5: LUMINAIRE STANDARDS

1. FULL CUTOFF REQUIREMENT

- a) All lighting regulated by this Chapter shall be full cut off.
- b) Where applicable and appropriate, for areas outside of the Village’s jurisdiction including but not limited to forest preserve and open space areas, the Village shall recommend to the appropriate jurisdiction that lighting be full cutoff.

2. LUMINAIRE RESTRICTION FOR STREET LIGHTS

Street lights are permitted only at intersections unless exempt through a variance or P.U.D ordinance.

3. PHOTOCELL/TIMER REQUIREMENT FOR STREET AND PARKING LOT LIGHTS

Both street lighting and parking lot lighting shall include photocells or timers as needed to regulate the hours of operation as required by this ordinance and to prevent operation during daylight hours.

4. INSTALLED HEIGHT RESTRICTION

The installed height of any full cutoff luminaire used for the outdoor lighting of any roadway shall not exceed the following limits:

Roadway	Maximum Installed Height
Residential Lighting	20 ft.
Commercial Lighting Municipal Lighting Open Space/Forest Preserve Lighting	25 ft.
Public Playing Field Lighting	50 ft.

5. LIGHT POLE COLOR RESTRICTION

Street and parking lot luminaire poles shall have a dark, matte finish, excluding spun aluminum and concrete poles.

6. CANOPY REQUIREMENTS

All canopies must be skirted with a skirt depth of 8” or greater.

SECTION 11-3-6: PROCEDURAL REQUIREMENTS

1. PLAN SUBMISSION

For land-development, redevelopment and new zoning applications where outdoor lighting is proposed, lighting plans shall be submitted to the Village Building and Zoning Officer for review by a Village appointed engineer at the expense of the applicant and approval prior to final plat and shall include:

- a) A site plan complete with all structures, parking spaces, building entrances, traffic areas (both vehicular and pedestrian), vegetation that might interfere with lighting, and all adjacent uses. The site plan shall show and identify the location of each existing and proposed luminaire and shall specify its installed height, detailed pole foundations, and method of mounting;
- b) Iso-footcandle plots for individual lighting installations, or 10' x 10' illuminance grid plots for multi-luminaire lighting installations, which shall demonstrate compliance with all applicable requirement set forth within this Chapter. The plots shall indicate the location of each existing and proposed luminaire, the installed height of said luminaires, and the overall light levels in footcandles and initial lumens on the entire zoning lot and at the property lines;
- c) A summary table identifying the maximum and minimum light levels in footcandles and initial lumens for all but not limited to parking areas, street or building entryways, signs, street lighting, canopies, architectural lighting and walkways.
- d) A description of each luminaire identified in the site plan including but not limited to:
 - Manufacturer with website;
 - Lamp type;
 - Bulb type including CCT (Kelvin);
 - Model number;
 - Photograph or catalog cut;
 - Photometric plan;
 - Pole color;
 - Light output in initial lumens;
 - Shielding or glare reduction devices;
 - Energy reduction and on/off control devices;

2. POST-APPROVAL ALTERATIONS

Post-approval alterations to lighting plans or intended substitutions for approved lighting equipment shall be submitted to the Village Building and Zoning Officer for review by a Village appointed engineer at the expense of the applicant and approval prior to final plat, with all plan submission requirements set forth within this Chapter, prior to installation.

3. RIGHT OF INSPECTION

The Village shall have the right to conduct a post-installation inspection to verify compliance with the requirements of this Chapter and, if appropriate, to require remedial action within 30 days at the expense of the applicant.

4. VARIANCES

Variations shall be processed as defined in the Village’s Zoning Ordinance, except a public notice sign and publication in a local newspaper shall not be required.

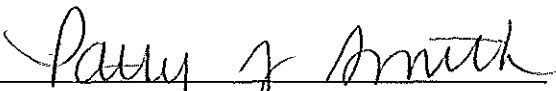
SECTION 2: The various provisions of this Chapter are hereby expressly declared to be severable and if any part or portion of this Chapter shall be held to be invalid by any court of competent jurisdiction, such decision shall not affect the validity of the remaining provisions of this Chapter, which shall be enforced to the fullest extent possible.

SECTION 3: This Ordinance shall be in full force and effect from and after its passage and approval and publication as provided by law. This Ordinance shall be published in pamphlet form.

Passed this 17th day of June, 2014 pursuant to a roll call vote as follows:


	Ayes	Nays	Absent	Abstain
Trustee Susan George	<u> X </u>	<u> </u>	<u> </u>	<u> </u>
Trustee James W. Kopec	<u> </u>	<u> X </u>	<u> </u>	<u> </u>
Trustee Albert L. Lenkaitis, Jr.	<u> X </u>	<u> </u>	<u> </u>	<u> </u>
Trustee Harry Blecker	<u> X </u>	<u> </u>	<u> </u>	<u> </u>
Trustee Laura B. Andersen	<u> X </u>	<u> </u>	<u> </u>	<u> </u>
Trustee Michael D. Millette	<u> X </u>	<u> </u>	<u> </u>	<u> </u>
President Patsy J. Smith	<u> </u>	<u> </u>	<u> </u>	<u> </u>

APPROVED this ^{28th p/s} 19th day of June, 2014



Patsy J. Smith, Village President

ATTEST:



Juliette Paul, Village Clerk